

RAW SEQUENCE LISTING

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Application Serial Number: 10/521,230
Source: PCU/P
Date Processed by STIC: 1/25/05

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/521,230

DATE: 01/25/2005

TIME: 09:23:05

Input Set : A:\X15815.ST25.National.txt
 Output Set: N:\CRF4\01252005\J521230.raw

3 <110> APPLICANT: Songqing Na
 4 Douglas Raymond Perkins
 6 <120> TITLE OF INVENTION: Novel Proteins and Their Uses
 8 <130> FILE REFERENCE: X-15815
C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/521,230
C--> 11 <141> CURRENT FILING DATE: 2005-01-13
 13 <160> NUMBER OF SEQ ID NOS: 24
 15 <170> SOFTWARE: PatentIn version 3.2
 17 <210> SEQ ID NO: 1
 18 <211> LENGTH: 1479
 19 <212> TYPE: DNA
 20 <213> ORGANISM: Homo sapiens
 23 <220> FEATURE:
 24 <221> NAME/KEY: misc_feature
 25 <222> LOCATION: (1)..(1479)
 26 <223> OTHER INFORMATION: LP391
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 33 aatccccgga gacttgaggg acctccgagt agaacctgtt acaactagtg ttgcaacagg 180
 35 ggactattca attttatgtt atgtaagctg ggtactccgg gcagatgcca gcatccgtt 240
 37 gttgaaggcc accaagattt gtgtgacggg caaaagcaac ttccagtctt acagctgtgt 300
 39 gaggtgcaat tacacagagg ccttccagac tcagaccaga ccctctgggt gttaatggac 360
 41 atttccttat atcggcttcc ctgttagagct gaacacagtc tatttcattt gggccataaa 420
 43 tattcctaattt gcaaatatgtt atgaagatgg cccttccatg tctgtgaatt tcacccatc 480
 45 aggaaggctt tgggatccga acatcactgc ttgttaaaaat aatgaggaga cagtagaaat 540
 47 gaacctcaca accactcccc tggaaacag atacatggctt cttatccaaac acagcaat 600
 49 catcggtttt ttcagggtgt ttgagccaca ccagaagaaa caaacgcgag cttcaatgggt 660
 51 gatccagtg actggggata gtgaagggtgc tacggcgcg ctgactccat atttccttac 720
 53 ttgtggcagc gactgcatttcc gacataaagg aacagttgtt ctctgcccac aaacaggcgt 780
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 59 aagatcaag aagacttccctt ttttaccac cacactactg ccccccattt agtttttgtt 960
 61 gtttaccca tctgaaatattt gtttccatca cacaattttt tacttcaactg aattttttca 1020
 63 aaaccatttc agaagtgggg tcatccatgtt aaagtggcag aaaaagaaaa tagcagagat 1080
 65 gggccagtg cagtggtt ccactcaaaa gaaggcagca gacaaagtgc tttcccttct 1140
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 75 tgcagaactt ctccatgttca agcagcagggtt gtcagcaggaa aaaagatcac aagcctgcca 1440
 77 cgatggctgc tgctccttgc agccccacccaa tgagaagca 1479
 80 <210> SEQ ID NO: 2

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83 <213> ORGANISM: Homo sapiens
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89 <223> OTHER INFORMATION: LP391
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101 Glu Trp Met Leu Gln His Asp Leu Ile Pro Gly Asp Leu Arg Asp Leu
102           35          40          45
105 Arg Val Glu Pro Val Thr Thr Ser Val Ala Thr Gly Asp Tyr Ser Ile
106           50          55          60
109 Leu Met Asn Val Ser Trp Val Leu Arg Ala Asp Ala Ser Ile Arg Leu
110           65          70          75          80
113 Leu Lys Ala Thr Lys Ile Cys Val Thr Gly Lys Ser Asn Phe Gln Ser
114           85          90          95
117 Tyr Ser Cys Val Arg Cys Asn Tyr Thr Glu Ala Phe Gln Thr Gln Thr
118           100         105         110
121 Arg Pro Ser Gly Gly Lys Trp Thr Phe Ser Tyr Ile Gly Phe Pro Val
122           115         120         125
125 Glu Leu Asn Thr Val Tyr Phe Ile Gly Ala His Asn Ile Pro Asn Ala
126           130         135         140
129 Asn Met Asn Glu Asp Gly Pro Ser Met Ser Val Asn Phe Thr Ser Pro
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134           165         170         175
137 Thr Val Glu Val Asn Phe Thr Thr Thr Pro Leu Gly Asn Arg Tyr Met
138           180         185         190
141 Ala Leu Ile Gln His Ser Thr Ile Ile Gly Phe Ser Gln Val Phe Glu
142           195         200         205
145 Pro His Gln Lys Lys Gln Thr Arg Ala Ser Val Val Ile Pro Val Thr
146           210         215         220
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150           225         230         235          240
153 Cys Gly Ser Asp Cys Ile Arg His Lys Gly Thr Val Val Leu Cys Pro
154           245         250         255
157 Gln Thr Gly Val Pro Phe Pro Leu Asp Asn Asn Lys Ser Lys Pro Gly
158           260         265         270
161 Gly Trp Leu Pro Leu Leu Leu Ser Leu Leu Val Ala Thr Trp Val
162           275         280         285
165 Leu Val Ala Gly Ile Tyr Leu Met Trp Arg His Glu Arg Ile Lys Lys
166           290         295         300
169 Thr Ser Phe Ser Thr Thr Leu Leu Pro Pro Ile Lys Val Leu Val
170           305         310         315          320
173 Val Tyr Pro Ser Glu Ile Cys Phe His His Thr Ile Cys Tyr Phe Thr

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Input Set : A:\X15815.ST25.National.txt
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178	340	345	350
181	Gln Lys Lys Lys Ile Ala Glu Met Gly Pro Val	Gln Trp Leu Ala Thr	
182	355	360	365
185	Gln Lys Lys Ala Ala Asp Lys Val Val Phe	Leu Ser Asn Asp Val	
186	370	375	380
189	Asn Ser Val Cys Asp Gly Thr Cys Gly Lys	Ser Glu Gly Ser Pro Ser	
190	385	390	395
193	Glu Asn Ser Gln Asp Leu Phe Pro Leu Ala Phe	Asn Leu Phe Cys Ser	
194	405	410	415
197	Asp Leu Arg Ser Gln Ile His Leu His Lys Tyr	Val Val Val Tyr Phe	
198	420	425	430
201	Arg Glu Ile Asp Thr Lys Asp Asp Tyr Asn Ala	Leu Ser Val Cys Pro	
202	435	440	445
205	Lys Tyr His Leu Met Lys Asp Ala Thr Ala Phe	Cys Ala Glu Leu Leu	
206	450	455	460
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213	Asp Gly Cys Cys Ser Leu		480
214	485		
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233	aatccccggga gacttgaggg acctccgagt agaacctgtt	acaactagtgt ttgcaacagg	180
235	ggactattca attttgatga atgtaagctg ggtactccgg	gcagatgcca gcatccgctt	240
237	gttgaaggcc accaagattt gtgtgacggg caaaaagcaac	ttccagtcct acagctgtgt	300
239	gaggtgcaat tacacagagg cttccagac tcagaccaga	ccctctggtg gtaaatggac	360
241	attttcctac atcggttcc ctgttagagct gaacacagtc	tatttcattt gggcccataaa	420
243	tatttcataat gcaaatatga atgaagatgg cccttcatg	tctgtgaatt tcacccatc	480
245	aggctgccta gaccacataa taaaaatataa aaaaaaagtgt	gtcaaggccg gaagcctgtg	540
247	ggatccgaac atcactgctt gtaagaagaa tgaggagaca	gtagaagtga acttcacaac	600
249	cactccccctg ggaaacagat acatggctct tatccaacac	agcactatca tcgggttttc	660
251	tcaggtgttt gagccacacc agaagaaaaca aacgcgagct	tcagtggta ttccagtgac	720
253	tggggatagt gaaggtgcta cggtgccaggg acttgcattgt	cctaaagcac tggctgaagg	780
255	aagccaaagag gatcactgct gtcctttt tctagaggaa	atgtttgtct acgtgctgac	840
257	tccatatattt cctacttgtg gcagcgactg catccgacat	aaaggaacag ttgtgtctg	900
259	cccacaaaaca ggcgtccctt tccctctgga taacaacaaa	agcaagccgg gaggtggct	960
261	gcctctcctc ctgctgtctc tgctggtggc cacatggtg	ctggtggcag ggatctatct	1020
263	aatgtggagg cacgaaagga tcaagaagac ttccctttct	accaccacac tactgcccc	1080
265	cattaaggtt cttgtggttt acccatctga aatatgttcc	catcacacaa tttgttactt	1140

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267 cactgaattt cttcaaaacc attgcagaag tgaggtcatc cttgaaaagt ggcagaaaaa 1200
269 gaaaatagca gagatgggtc cagtgcagt gcttgcact caaaaagaagg cagcagacaa 1260
271 agtcgtcttc cttcttcca atgacgtcaa cagtgtgtgc gatggtaacct gtggcaagag 1320
273 cgagggcagt cccagtgaga actctcaaga cctttcccc cttgcctta acctttctg 1380
275 cagtgtatcta agaagccaga ttcatctgca caaatacgtg gtggtctact ttagagagat 1440
277 tgatacacaaa gacgattaca atgctctcag tgtctgcccc aagtaccacc tcataaagg 1500
279 tgccactgct ttctgtgcag aacttctcca tgtcaaggcag caggtgtcag cagaaaaaag 1560
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293 <223> OTHER INFORMATION: LP392
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302 20 25 30
305 Glu Trp Met Leu Gln His Asp Leu Ile Pro Gly Asp Leu Arg Asp Leu
306 35 40 45
309 Arg Val Glu Pro Val Thr Thr Ser Val Ala Thr Gly Asp Tyr Ser Ile
310 50 55 60
313 Leu Met Asn Val Ser Trp Val Leu Arg Ala Asp Ala Ser Ile Arg Leu
314 65 70 75 80
317 Leu Lys Ala Thr Lys Ile Cys Val Thr Gly Lys Ser Asn Phe Gln Ser
318 85 90 95
321 Tyr Ser Cys Val Arg Cys Asn Tyr Thr Glu Ala Phe Gln Thr Gln Thr
322 100 105 110
325 Arg Pro Ser Gly Gly Lys Trp Thr Phe Ser Tyr Ile Gly Phe Pro Val
326 115 120 125
329 Glu Leu Asn Thr Val Tyr Phe Ile Gly Ala His Asn Ile Pro Asn Ala
330 130 135 140
333 Asn Met Asn Glu Asp Gly Pro Ser Met Ser Val Asn Phe Thr Ser Pro
334 145 150 155 160
337 Gly Cys Leu Asp His Ile Met Lys Tyr Lys Lys Lys Cys Val Lys Ala
338 165 170 175
341 Gly Ser Leu Trp Asp Pro Asn Ile Thr Ala Cys Lys Lys Asn Glu Glu
342 180 185 190
345 Thr Val Glu Val Asn Phe Thr Thr Pro Leu Gly Asn Arg Tyr Met
346 195 200 205
349 Ala Leu Ile Gln His Ser Thr Ile Ile Gly Phe Ser Gln Val Phe Glu
350 210 215 220
353 Pro His Gln Lys Lys Gln Thr Arg Ala Ser Val Val Ile Pro Val Thr
354 225 230 235 240
357 Gly Asp Ser Glu Gly Ala Thr Val Gln Gly Leu Ala Cys Pro Lys Ala
358 245 250 255

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Input Set : A:\x15815.ST25.National.txt
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361 Leu Ala Glu Gly Ser Gln Glu Asp His Cys Cys Ser Phe Phe Leu Glu
 362 260 265 270
 365 Glu Met Phe Val Tyr Val Leu Thr Pro Tyr Phe Pro Thr Cys Gly Ser
 366 275 280 285
 369 Asp Cys Ile Arg His Lys Gly Thr Val Val Leu Cys Pro Gln Thr Gly
 370 290 295 300
 373 Val Pro Phe Pro Leu Asp Asn Asn Lys Ser Lys Pro Gly Gly Trp Leu
 374 305 310 315 320
 377 Pro Leu Leu Leu Leu Ser Leu Leu Val Ala Thr Trp Val Leu Val Ala
 378 325 330 335
 381 Gly Ile Tyr Leu Met Trp Arg His Glu Arg Ile Lys Lys Thr Ser Phe
 382 340 345 350
 385 Ser Thr Thr Thr Leu Leu Pro Pro Ile Lys Val Leu Val Val Tyr Pro
 386 355 360 365
 389 Ser Glu Ile Cys Phe His His Thr Ile Cys Tyr Phe Thr Glu Phe Leu
 390 370 375 380
 393 Gln Asn His Cys Arg Ser Glu Val Ile Leu Glu Lys Trp Gln Lys Lys
 394 385 390 395 400
 397 Lys Ile Ala Glu Met Gly Pro Val Gln Trp Leu Ala Thr Gln Lys Lys
 398 405 410 415
 401 Ala Ala Asp Lys Val Val Phe Leu Leu Ser Asn Asp Val Asn Ser Val
 402 420 425 430
 405 Cys Asp Gly Thr Cys Gly Lys Ser Glu Gly Ser Pro Ser Glu Asn Ser
 406 435 440 445
 409 Gln Asp Leu Phe Pro Leu Ala Phe Asn Leu Phe Cys Ser Asp Leu Arg
 410 450 455 460
 413 Ser Gln Ile His Leu His Lys Tyr Val Val Val Tyr Phe Arg Glu Ile
 414 465 470 475 480
 417 Asp Thr Lys Asp Asp Tyr Asn Ala Leu Ser Val Cys Pro Lys Tyr His
 418 485 490 495
 421 Leu Met Lys Asp Ala Thr Ala Phe Cys Ala Glu Leu Leu His Val Lys
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 449 aatccccgga gacttgaggg acctccgagt agaacctgtt acaacttagtg ttgcaacagg 180
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VERIFICATION SUMMARY

PATENT APPLICATION: US/10/521,230

DATE: 01/25/2005

TIME: 09:23:06

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L:10 M:270 C: Current Application Number differs, Replaced Current Application Number

L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date